

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) Electric compressor comprising:

a single-phase induction motor ~~formed of~~ comprising a stator and a rotor;

a compressing mechanism driven by the motor; and

a hermetic container for accommodating the motor and the compressing mechanism and for pooling lubricant,

wherein the compressing mechanism includes:

a shaft having a main shaft and a sub-shaft, the main shaft comprising a first section having a first diameter and a second section having a second diameter smaller than the first diameter;

a cylinder for forming a compressing chamber; and

a bearing for supporting the main shaft,

wherein the shaft includes:

a centrifugal pump opening into the lubricant;

a forward leading groove engraved on an outer wall of the main shaft, and having a first end communicating with the centrifugal pump and a second end communicating with an annular lubricant groove provided on an upper end of the bearing;

a reverse leading groove having a lead directing in an opposite direction to that of the forward leading groove, and having a first end communicating with the centrifugal pump, within the second section of the shaft, and a second end directly opening to the annular lubricant groove; and

a vertical hole bored in the sub-shaft and having a first end communicating with the annular lubricant groove, and a second end opening into the hermetic container.

2. (Currently Amended) The electric compressor of claim 1, wherein the reverse leading groove of which first end communicates with the centrifugal pump via a thinner section is formed at an intermediate section of the shaft.
3. (Previously Presented) The electric compressor of claim 1, wherein a cross sectional area of the reverse leading groove is smaller than that of the forward leading groove.
4. (Previously Presented) The electric compressor of claim 1, wherein a lead of the reverse leading groove is greater than that of the forward leading groove.
5. (Original) The electric compressor of claim 1, wherein the vertical hole slants with respect to a shaft center of the main shaft such that an upper section of the vertical hole slants outward.
6. (Previously Presented) The electric compressor of claim 2, wherein a cross sectional area of the reverse leading groove is smaller than that of the forward leading groove.
7. (Previously Presented) The electric compressor of claim 2, wherein a lead of the reverse leading groove is greater than that of the forward leading groove.